

2009



SunTouch Product Catalog

Like a
walk on the
beach.[®]



SunTouch[®] Mat



SunTouch[®] Warm Wire[®]



SunTouch[®] UnderFloor[™]



SunTouch[®] ProMelt[™] Mat



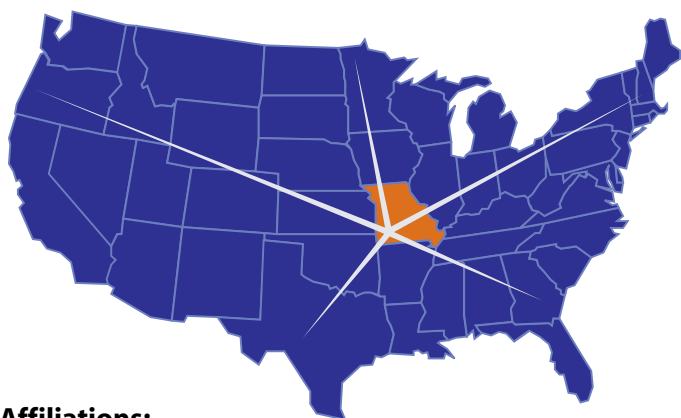
SunTouch[®] ProMelt[™] Cable



Electric Floor Heating

SunTouch heating products are designed and made in the United States.

With SunTouch, you'll find more options, more sources, more support, and more satisfaction. Our 140,000-sq. ft. manufacturing facility is located in Springfield, Missouri at the population center of the United States. We do research & development, assembly, manufacturing, order fulfillment, factory training, technical services, customer service, accounting, quality control, software development and marketing on-site. As a division of Watts Radiant and a subsidiary of Watts Water Technologies, we are part of a \$1.4 billion world-wide plumbing and heating company established in 1874 and located in North Andover, Massachusetts (NYSE: WTS).



Affiliations:



Some of the Crew



Factory Training Class



Watts SunTouch plant in Springfield, Missouri.



g and Snow Melting



SunTouch Mats



WarmWire Cable



UnderFloor Mats



ProMelt Mats

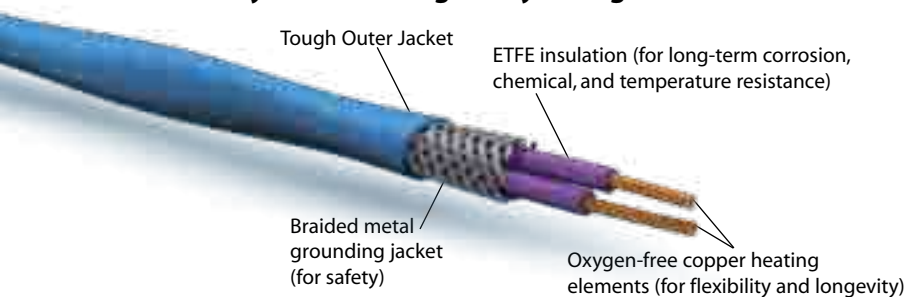
Why SunTouch?

Customers love warm floors. They spend lots of time in kitchens and bathrooms and they want to be comfortable. Electric radiant floors are easy to explain, install, and enjoy. Because warm floors come in many sizes, they fit almost any budget.

Surfaces such as driveways, steps, sidewalks and patios are dangerous when covered with snow and ice. Your customers will love a maintenance free solution to clearing these surfaces. Our new ProMelt Mats and Cables are easy to install and you don't need a mechanical room.

You can rest easy knowing that SunTouch builds a better, longer-lasting product than anyone. Our wire is better, our power leads are better, our controls are better and our support is better. We're extremely proud of our high quality and safety. Our parent company was founded on quality and has been making safety equipment for 135 years.

Anatomy of a world-class heating wire. Compare it to any other heating wire you might consider.



Twisted dual wire configuration allows for single point connection and ultra-low EMF (electromagnetic field)

Code Listings
and Standards



SunTouch Mats

Roll out SunTouch mats over a sub floor, shape them to fit the room and cover them with thin-set or self-leveling mortar. Almost any floor covering works great. SunTouch is most popular in baths, kitchens and entries.

WarmWire Cable

WarmWire costs less than SunTouch Mat and installs differently. Secure the cable straps to the subfloor and stretch the wire between them. Cover with thin-set or self-leveling mortar and finish with almost any floor covering.

UnderFloor Mats

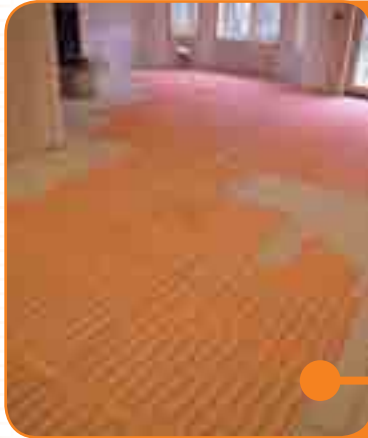
Install SunTouch UnderFloor mats between floor joists to warm the floor above. They work under any floor covering, including nail-down hardwood flooring. These mats work great for remodeling.

NEW ProMelt Cables & Mats

Our new snow melting mats and cables clear snow and ice to make walking and driving safer. They install below concrete, asphalt, stone or brick, and even under exterior tiles. Melt your troubles away!

SunTouch: more ways

Don't disappoint your customers by installing a cold floor. They want a warm floor and SunTouch gives you more ways to get the job done.



SunTouch Mats in a large kitchen and dining room area. Use the big 2' or 3' wide mats for faster installation.



SunTouch Mats in a large commercial space installed in walkways. The installer is holding down the mats with double sided tape to cover a big area quickly.



SunTouch Mats in a custom bathroom. Note the setback from the walls where you don't need heat. The mats install up to the cabinet line so they can warm the kickspace.

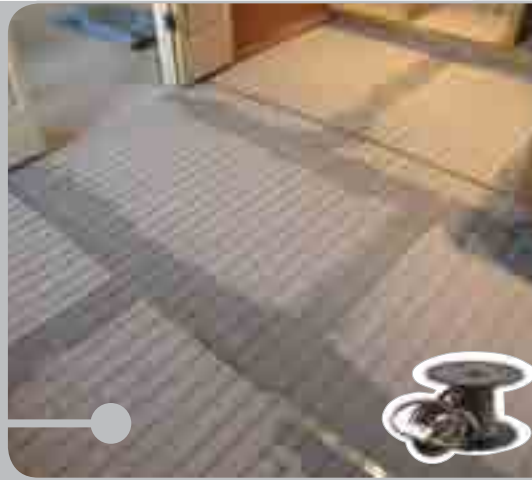


SunTouch Mats in a yoga retreat for recovering cancer patients. SunTouch has the lowest EMF (electromagnetic field) rating for electric floor heating products.

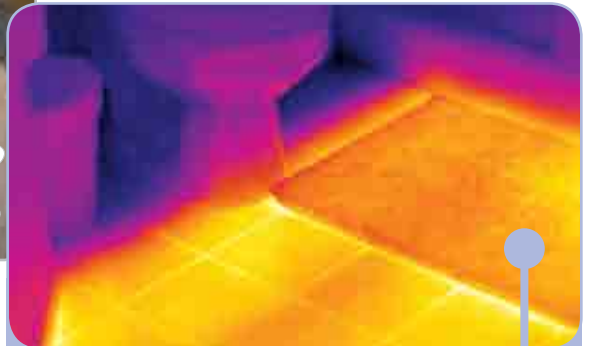
ways to warm floors



WarmWire in a large condo. Self-leveling concrete will cover the cables and everybody will be warm and happy.



WarmWire in a custom bathroom. Heat the tile around whirlpools and showers, so the tile stays warm and dry, reducing mold and mildew.



Your customers are your greatest asset, so protect them. Give them what they want and make them happy. SunTouch can help.



SunTouch UnderFloor installs between floor joists (with insulation below) to heat the space above. The infrared image shows how the bathroom floor on top is toasty warm.

INTRODUCING

ProMelt™

Electric Snow melting Mats and Cables

Offering more ways to melt snow & ice

SunTouch introduces a new line of snow melting products in a wide variety of Mat & Cable sizes to fit any area. There are several new types of snow sensors and controls, too.

Please turn to pages 16-21 for more information.



SunTouch

Mat Kit

Everything you need
for a quick and simple
installation.

Heated floors made simple.



• 19 Sizes of 120 Volt Mat Kits Available!

Each kit contains:

- SunTouch Mat(s) - 2' wide
- SunStat Pro Thermostat
- LoudMouth™ Installation Monitor
- Double-sided tape
- Installation Manual and Bi-lingual DVD

1. The industry's **first thin, open-weave construction** allows thin-set or self-leveling mortar to flow through the mat and easily bond with the underlying material. This one-step application adds only 1/8" thickness over a normal tile installation.
2. The industry's **first single power lead construction** makes mats easy to install and simpler to connect to the control.
3. The industry's **highest-quality heating wire** using ETFE high-temperature insulation, XLPE (PEX) jacket, and oxygen-free copper heating elements for corrosion resistance, temperature resistance, abrasion resistance, and longevity.
4. The industry's **first twisted, twin-wire construction** creates ultra-low EMF.
5. The industry's **only shielded and fully grounded 10-ft. power lead** provides safety and jobsite durability.

120 VOLT MAT KITS

DESCRIPTION	QUANTITY & SIZE OF MATS	ORDER#	MODEL#	AMP DRAW
10 SqFt, SunTouch Mat Kit	(1) 10 sq. ft. mat	81009684	12000524-KIT	1.0
15 SqFt, SunTouch Mat Kit	(1) 15 sq. ft. mat	81009685	12000724-KIT	1.5
20 SqFt, SunTouch Mat Kit	(1) 20 sq. ft. mat	81009686	12001024-KIT	2.0
25 SqFt, SunTouch Mat Kit	(1) 25 sq. ft. mat	81009687	12001224-KIT	2.5
30 SqFt, SunTouch Mat Kit	(1) 30 sq. ft. mat	81009688	12001524-KIT	3.0
35 SqFt, SunTouch Mat Kit	(1) 35 sq. ft. mat	81009689	12001724-KIT	3.5
40 SqFt, SunTouch Mat Kit	(1) 40 sq. ft. mat	81009690	12002024-KIT	4.0
45 SqFt, SunTouch Mat Kit	(1) 45 sq. ft. mat	81009691	12002224-KIT	4.5
50 SqFt, SunTouch Mat Kit	(1) 50 sq. ft. mat	81009692	12002524-KIT	5.0
60 SqFt, SunTouch Mat Kit	(1) 60 sq. ft. mat	81009693	12003024-KIT	6.0
70 SqFt, SunTouch Mat Kit	(1) 70 sq. ft. mat	81009694	12003524-KIT	7.0
80 SqFt, SunTouch Mat Kit	(1) 80 sq. ft. mat	81009695	12004024-KIT	8.0
90 SqFt, SunTouch Mat Kit	(2) 45 sq. ft. mat	81010512	12004524-KIT	9.0
100 SqFt, SunTouch Mat Kit	(2) 50 sq. ft. mat	81010513	12005024-KIT	10.0
110 SqFt, SunTouch Mat Kit	(1) 50' & (1) 60 sq. ft.	81010514	12005524-KIT	11.0
120 SqFt, SunTouch Mat Kit	(2) 60 sq. ft. mat	81010515	12006024-KIT	12.0
130 SqFt, SunTouch Mat Kit	(1) 60' & (1) 70 sq. ft.	81010516	12006524-KIT	13.0
140 SqFt, SunTouch Mat Kit	(2) 70 sq. ft. mat	81010517	12007024-KIT	14.0
150 SqFt, SunTouch Mat Kit	(1) 70' & (1) 80 sq. ft.	81010518	12007524-KIT	15.0

Note: Mat kits larger than 80 sq. ft. are not packaged in full color boxes.

Heated floors
made simple.

SunTouch
WarmWire®
INSTALLATION
Kit

Everything you need
for a quick and simple
installation.



Each kit contains:

- WarmWire® Spool(s)
- SunStat Pro™ Thermostat
- CableStrap™
- Double-sided Tape
- LoudMouth™ Installation Monitor
- Installation Manual and Bi-lingual DVD

- 19 Sizes of 120 Volt WarmWire Kits!
- 20 Sizes of 240 Volt WarmWire Kits!

There are 3 WarmWire spacing choices:

- **2" on center delivers 15 watts per sq. ft.**
For high heat loss areas & concrete slabs.
- **2.5" on center delivers 12 watts per sq. ft.**
For bathrooms, kitchens, or living areas.
- **3" on center delivers 10 watts per sq. ft.**
For low heat loss areas such as hallways.

120 VOLT CABLE KITS

DESCRIPTION	QUANTITY & SIZE		ORDER#	MODEL#	SQ. FT. AT	SQ. FT. AT	SQ. FT. AT	AMP DRAW
	OF CABLES				2" O.C.	2.5" O.C.	3" O.C.	
10 SqFt, WarmWire Kit,	(1) 10 sq. ft.		81009480	120010WD-KIT	8	10	12	1.0
15 SqFt, WarmWire Kit	(1) 15 sq. ft.		81009481	120015WD-KIT	12	15	18	1.5
20 SqFt, WarmWire Kit	(1) 20 sq. ft.		81009482	120020WD-KIT	16	20	24	2.0
25 SqFt, WarmWire Kit	(1) 25 sq. ft.		81009483	120025WD-KIT	20	25	30	2.5
30 SqFt, WarmWire Kit	(1) 30 sq. ft.		81009484	120030WD-KIT	24	30	36	3.0
35 SqFt, WarmWire Kit	(1) 35 sq. ft.		81009485	120035WD-KIT	28	35	42	3.5
40 SqFt, WarmWire Kit	(1) 40 sq. ft.		81009486	120040WD-KIT	32	40	48	4.0
45 SqFt, WarmWire Kit	(1) 45 sq. ft.		81009487	120045WD-KIT	36	45	54	4.5
50 SqFt, WarmWire Kit	(1) 50 sq. ft.		81009488	120050WD-KIT	40	50	60	5.0
60 SqFt, WarmWire Kit	(1) 60 sq. ft.		81009489	120060WD-KIT	48	60	72	6.0
70 SqFt, WarmWire Kit	(1) 70 sq. ft.		81009490	120070WD-KIT	56	70	84	7.0
80 SqFt, WarmWire Kit	(1) 80 sq. ft.		81009491	120080WD-KIT	64	80	96	8.0
90 SqFt, WarmWire Kit	(1) 90 sq. ft.		81009492	120090WD-KIT	72	90	108	9.0
100 SqFt, WarmWire Kit	(1) 100 sq. ft.		81009493	1200100WD-KIT	80	100	120	10.0
110 SqFt, WarmWire Kit	(1) 50 (1) 60 sq. ft.		81009494	1200110WD-KIT	88	110	132	11.0
120 SqFt, WarmWire Kit	(2) 60 sq. ft.		81009495	1200120WD-KIT	96	120	144	12.0
130 SqFt, WarmWire Kit	(1) 60 (1) 70 sq. ft.		81009496	1200130WD-KIT	104	130	156	13.0
140 SqFt, WarmWire Kit	(2) 70 sq. ft.		81009497	1200140WD-KIT	112	140	168	14.0
150 SqFt, WarmWire Kit	(1) 70 (1) 80 sq. ft.		81009498	1200150WD-KIT	120	150	180	15.0

240 VOLT CABLE KITS

DESCRIPTION	QUANTITY & SIZE		ORDER#	MODEL#	SQ. FT. AT	SQ. FT. AT	SQ. FT. AT	AMP DRAW
	OF CABLES				2" O.C.	2.5" O.C.	3" O.C.	
160 SqFt, WarmWire Kit	(2) 80 sq. ft.		81009499	240160WD-KIT	128	160	192	8.0
170 SqFt, WarmWire Kit	(1) 80 (1) 90 sq. ft.		81009500	240170WD-KIT	136	170	204	8.5
180 SqFt, WarmWire Kit	(2) 90 sq. ft.		81009501	240180WD-KIT	144	180	216	9.0
190 SqFt, WarmWire Kit	(1) 90 (1) 100 sq. ft.		81009502	240190WD-KIT	152	190	228	9.5
200 SqFt, WarmWire Kit	(2) 100 sq. ft.		81009503	240200WD-KIT	160	200	240	10.0
220 SqFt, WarmWire Kit	(1) 100 (1) 120 sq. ft.		81009504	240220WD-KIT	176	220	264	11.0
240 SqFt, WarmWire Kit	(2) 120 sq. ft.		81009505	240240WD-KIT	192	240	288	12.0
260 SqFt, WarmWire Kit	(1) 120 (1) 140 sq. ft.		81009506	240260WD-KIT	208	260	312	13.0
280 SqFt, WarmWire Kit	(2) 140 sq. ft.		81009507	240280WD-KIT	224	280	336	14.0
300 SqFt, WarmWire Kit	(1) 140 (1) 160 sq. ft.		81009508	240300WD-KIT	240	300	360	15.0
320 SqFt, WarmWire Kit	(2) 160 sq. ft.		81010502	240320WD-KIT	256	320	384	16.0
340 SqFt, WarmWire Kit	(1) 160 (1) 180 sq. ft.		81010503	240340WD-KIT	272	340	408	17.0
360 SqFt, WarmWire Kit	(2) 180 sq. ft.		81010504	240360WD-KIT	288	360	432	18.0
380 SqFt, WarmWire Kit	(1) 180 (1) 200 sq. ft.		81010505	240380WD-KIT	304	380	456	19.0
400 SqFt, WarmWire Kit	(2) 200 sq. ft.		81010506	240400WD-KIT	320	400	480	20.0
420 SqFt, WarmWire Kit	(3) 140 sq. ft.		81010507	240420WD-KIT	336	420	504	21.0
440 SqFt, WarmWire Kit	(2) 140 (1) 160 sq. ft.		81010508	240440WD-KIT	352	440	528	22.0
460 SqFt, WarmWire Kit	(1) 140 (2) 160 sq. ft.		81010509	240460WD-KIT	368	460	552	23.0
480 SqFt, WarmWire Kit	(4) 120 sq. ft.		81010510	240480WD-KIT	384	480	576	24.0
500 SqFt, WarmWire Kit	(3) 120 (1) 140 sq. ft.		81010511	240500WD-KIT	400	500	600	25.0

Note: WarmWire Kits larger than 320 Sq.Ft. include SunStat Relay(s), as well as a SunStat Pro thermostat. These sizes are not packaged in full color boxes.

SunTouch Mats

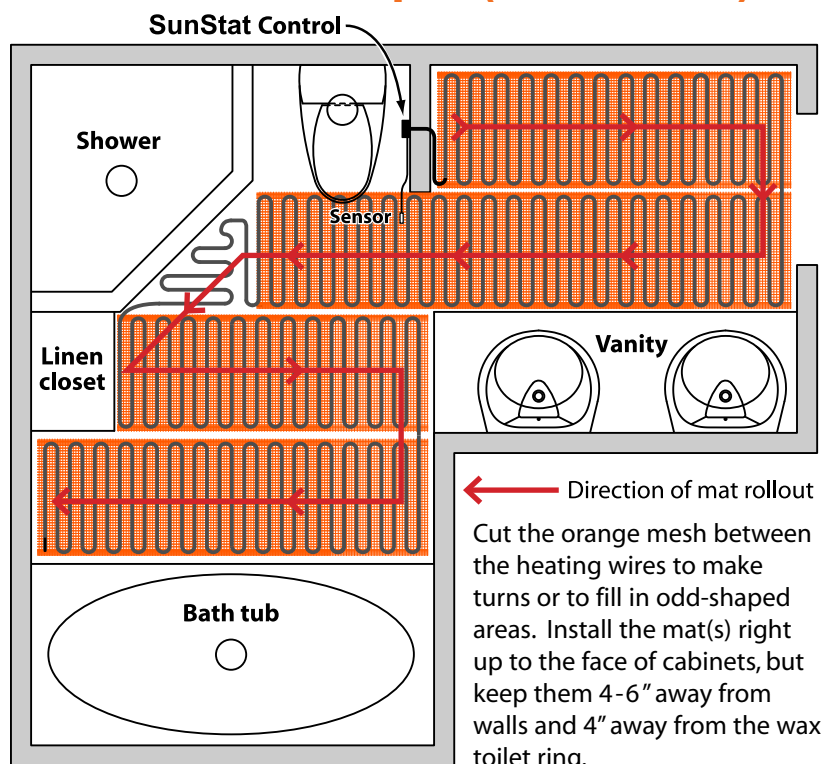


Roll out mat and secure to the floor.



Trowel thin-set and set tile.

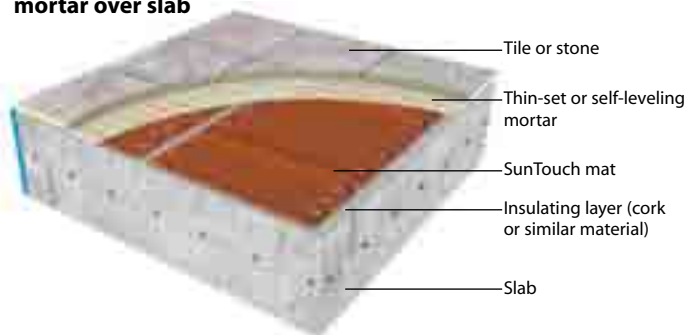
SunTouch Mat Bathroom Layout
Bathroom Total Area = 80 sq.ft.
One Mat = 40 sq.ft. (2 ft. x 20 ft.)



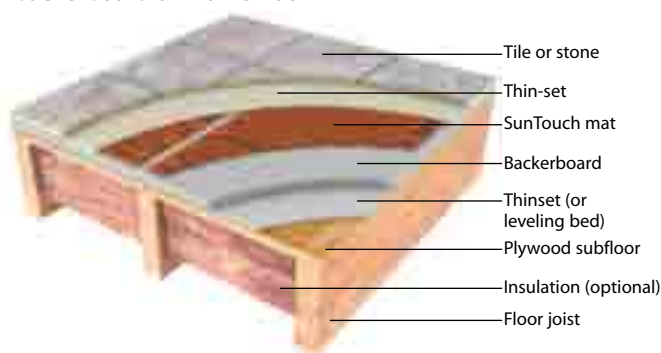
SunTouch Mat is the safest and easiest-to-install heating mat in the industry. It is Listed by UL® for the U.S. and Canada, and tested by Tile Council of North America for all residential and moderate commercial applications. All mats have the “S-pattern” wire construction and produce 12 watts/sq. ft. SunTouch offers the largest selection of mats in the industry with over 40 sizes manufactured in three widths (1, 2, and 3 ft. wide) in lengths covering up to 160 sq. ft. — with one mat! Just a few benefits of SunTouch Mats are:

- 1. The industry's first thin, open-weave construction** allows thin-set or self-leveling mortar to flow through the mat and easily bond with the underlying material. This one-step application adds only 1/8" thickness over a normal tile installation.
- 2. The industry's first single power lead construction** makes mats easy to install and simpler to connect to the control.
- 3. The industry's highest-quality heating wire** using ETFE high-temperature insulation, XLPE (PEX) jacket, and oxygen-free copper heating elements for corrosion resistance, temperature resistance, abrasion resistance, and longevity.
- 4. The industry's first twisted, twin-wire construction** creates ultra-low EMF.
- 5. 120-VAC and 240-VAC models** available for small residential to large commercial applications.
- 6. The industry's only shielded and fully grounded** 10-ft. power lead provides safety and jobsite durability. Power leads are color-coded for 120 VAC or 240 VAC.

SunTouch Mat in thin-set mortar over slab



SunTouch Mat in thin-set on backboard on frame floor



It's easy to design a SunTouch floor heating system.

Evaluate how many square feet of floor to be heated. Do not put under cabinets or appliances. Leave your SunTouch Mat at least 4" away from the toilet wax ring and 4"-6" away from walls. Do install up to the toe-kick in front of kitchen or bath cabinets, and in front of a toilet and/or shower and tub, so toes will stay warm.

Select one mat, or a combination of mats, to fill the area. Remember, multiple mats of the same voltage can be wired together to fill larger areas.

How much SunTouch should I order?

- 1. Calculate total wall-to-wall area of the room.** Subtract the square footage of all built-ins (tub, toilet, cabinets, etc.).
(Total area – built-ins) = (____ – ____) = ____ sq. ft.
- 2. Multiply this area by 0.90.** Round down to the nearest 5 sq. ft. This is the heated area.
____ x 0.90 = ____ sq. ft. of heated area.
- 3. Select the appropriate mat(s)** based on the square footage of heated area, from the tables below, or choose one of our new SunTouch Mat Kits on page 7.



3-ft.-wide mats 120 VAC						
Mat Square Footage	Mat Size (W x L)	Order Number	Model Number	Amp Draw	REET Value*	Ship Wt. (lb.)
15	3' x 5'	81002184	12000536ST	1.5	0.13	4
20	3' x 6'-8"	81002188	12000636ST	2.0	0.13	4
25	3' x 8'-4"	81002194	12000836ST	2.5	0.10	5
30	3' x 10'	81002200	12001036ST	3.0	0.06	5
45	3' x 15'	81002209	12001536ST	4.5	0.11	7
60	3' x 20'	81002220	12002036ST	6.0	0.13	9



2-ft.-wide mats 120 VAC						
Mat Square Footage	Mat Size (W x L)	Order Number	Model Number	Amp Draw	REET Value*	Ship Wt. (lb.)
10	2' x 5'	81002183	12000524ST	1.0	0.11	3
15	2' x 7'-6"	81007233	12000724ST	1.5	0.13	4
20	2' x 10'	81002197	12001024ST	2.0	0.13	4
25	2' x 12'-6"	81007234	12001224ST	2.5	0.10	5
30	2' x 15'	81002208	12001524ST	3.0	0.06	5
35	2' x 17'-6"	81007235	12001724ST	3.5	0.13	6
40	2' x 20'	81002217	12002024ST	4.0	0.10	6
45	2' x 22'-6"	81007236	12002224ST	4.5	0.11	7
50	2' x 25'	81002226	12002524ST	5.0	0.14	7
60	2' x 30'	81002234	12003024ST	6.0	0.13	9
70	2' x 35'	81002240	12003524ST	7.0	0.13	11
80	2' x 40'	81002246	12004024ST	8.0	0.19	13



1-ft.-wide mats 120 VAC						
Mat Square Footage	Mat Size (W x L)	Order Number	Model Number	Amp Draw	REET Value*	Ship Wt. (lb.)
10	1' x 10'	81002196	12001012ST	1.0	0.11	3
15	1' x 15'	81002206	12001512ST	1.5	0.13	4
20	1' x 20'	81002215	12002012ST	2.0	0.13	4
25	1' x 25'	81002224	12002512ST	2.5	0.10	5

Discontinued products include 1' x 30' mats.

* The REET values listed above are 200% below daily exposure levels of the average U.S. citizen as reported by the National Institute of Environmental Health Sciences (NIEHS). Values are average electromagnetic field in milligauss. For more information about EMF and REET testing, please visit www.suntouch.net.



3-ft.-wide mats 240 VAC						
Mat Square Footage	Mat Size (W x L)	Order Number	Model Number	Amp Draw	REET Value*	Ship Wt. (lb.)
30	3' x 10'	81002266	24001036ST	1.5	0.13	5
40	3' x 13'-4"	81002268	24001336ST	2.0	0.13	6
50	3' x 16'-8"	81002272	24001636ST	2.5	0.10	7
60	3' x 20'	81002277	24002036ST	3.0	0.06	9
90	3' x 30'	81002286	24003036ST	4.5	0.11	15
120	3' x 40'	81002406	24004036ST	6.0	0.13	19



2-ft.-wide mats 240 VAC						
Mat Square Footage	Mat Size (W x L)	Order Number	Model Number	Amp Draw	REET Value*	Ship Wt. (lb.)
20	2' x 10'	81002265	24001024ST	1.0	0.11	4
30	2' x 15'	81002269	24001524ST	1.5	0.13	5
40	2' x 20'	81002274	24002024ST	2.0	0.13	6
50	2' x 25'	81002279	24002524ST	2.5	0.10	7
60	2' x 30'	81002284	24003024ST	3.0	0.06	9
70	2' x 35'	81002288	24003524ST	3.5	0.13	11
80	2' x 40'	81002293	24004024ST	4.0	0.10	13
90	2' x 45'	81002407	24004524ST	4.5	0.11	15
100	2' x 50'	81002410	24005024ST	5.0	0.14	17
120	2' x 60'	81002415	24006024ST	6.0	0.13	19
140	2' x 70'	81002419	24007024ST	7.0	0.13	21
160	2' x 80'	81002422	24008024ST	8.0	0.19	23



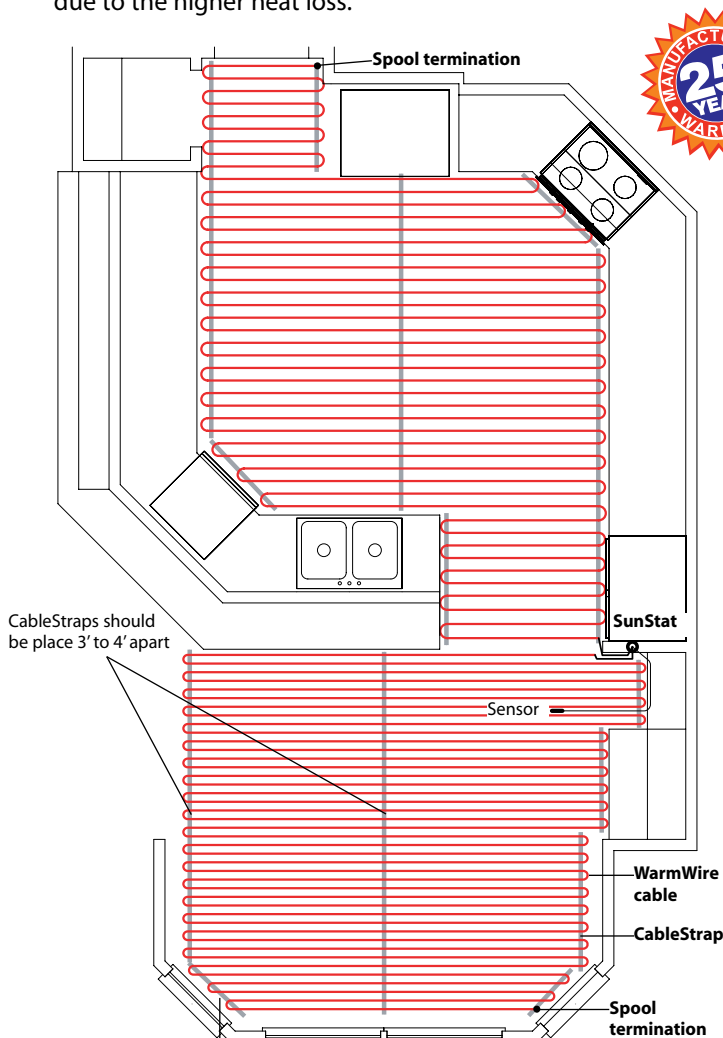
WarmWire Cable

WarmWire® is a simple, economical way to warm floors and provide years of lasting comfort. Warm all kinds of floor coverings: ceramic tile, stone, wood, laminates, vinyl, or carpet.

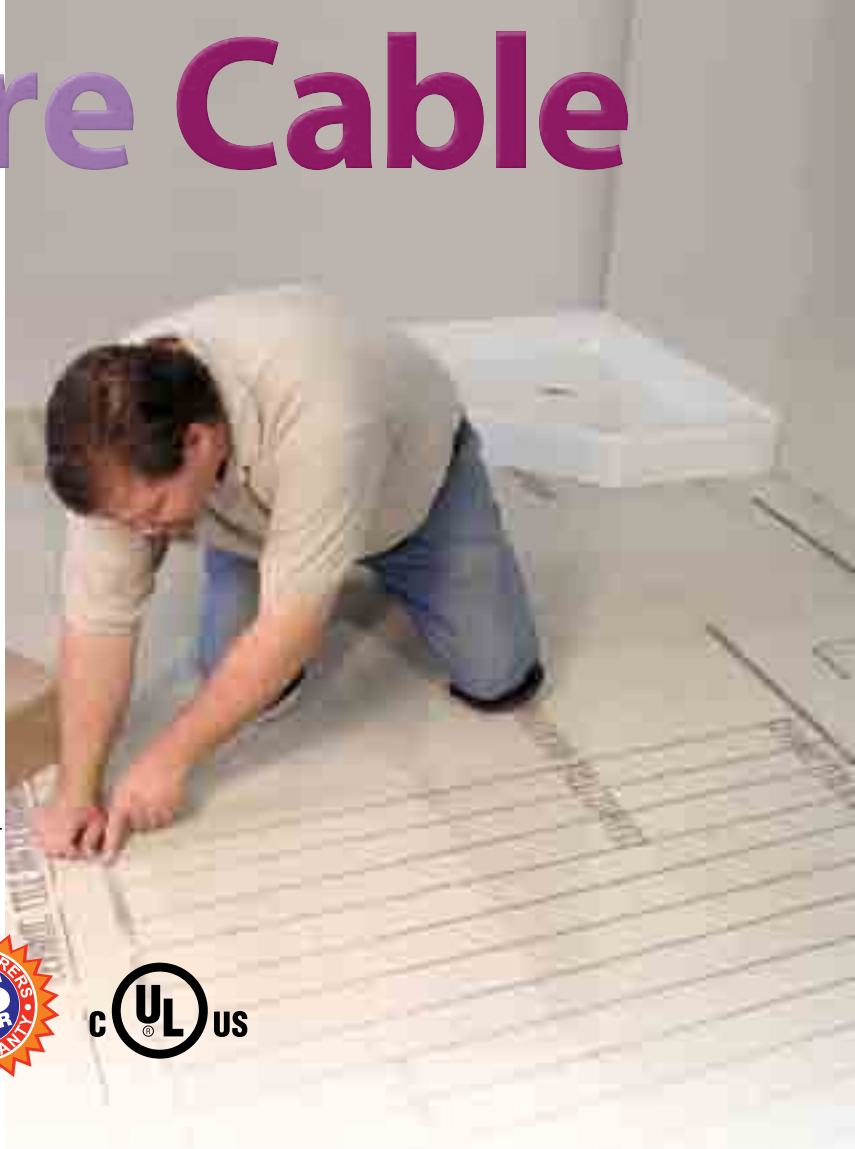
There's a WarmWire spool sized for your project. Lay out and attach the CableStrap. Fasten the WarmWire to the strap as you weave it back and forth across the floor. Put down a layer of thin-set mortar and set your tile or stone. Install a layer of self-leveling cement over the cables for hardwood, laminate, vinyl, or carpeted floors. Our installation manual will show all the details.

Kitchen/breakfast Layout

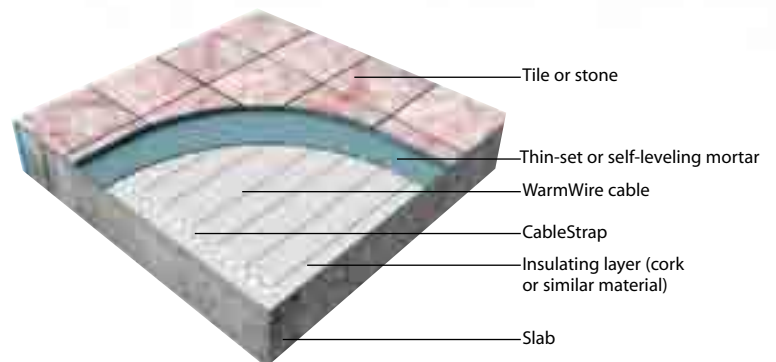
Due to differences in heat loss between the kitchen and breakfast areas, two different spacings were used: 3" on center in the kitchen, and 2" on center in the breakfast area due to the higher heat loss.



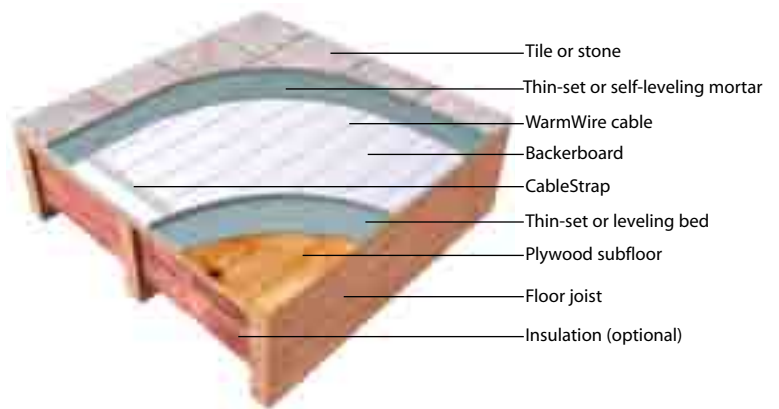
Warming unusual shapes in a floor plan, including these 45° angles, are easily accomplished with WarmWire.



WarmWire in thin-set mortar over slab



WarmWire in thin-set on backer board on frame floor



WarmWire is easily sized for any floor heating project.

For fast and easy sizing, go to www.suntouch.com.



- Evaluate how many square feet of floor to be heated. Do not put under cabinets or appliances. Generally, about 85–90% of the open areas should be heated. Leave the wire at least 4" away from the toilet wax ring and 4"–6" away from your walls. To keep toes warm, install right up to the toe-kick in front of kitchen or bath cabinets, and in front of a toilet, shower, or tub.

- Choose a "spacing factor" of 2", 2.5", or 3" on center. Below are guidelines for application and spacing recommendations.

- **2" on center = 15 Watts/sq. ft.**
Use on concrete basement slabs, sunrooms, and in other high heat loss areas.

- **2.5" on center = 12 Watts/sq. ft.**
Use in bathrooms, kitchens, dining/living areas, etc.

- **3" on center = 10 Watts/sq. ft.**
Use in hallways, entries, low heat loss areas, etc.

2.5" on center is the most commonly used spacing. This spacing equals the heat output of SunTouch mats.

WarmWire Heating Cables 120 VAC								
Total Sq. ft. 2" on center (15 W/sq. ft.)	Total Sq. ft. 2.5" on center (12 W/sq. ft.)	Total Sq. ft. 3" on center (10 W/sq. ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	REET Value*	Ship Weight (lb.)
8	10	12	81004574	120010WDST	47	1.0	0.16	2
12	15	18	81004575	120015WDST	71	1.5	0.14	2.5
16	20	24	81004576	120020WDST	94	2.0	0.16	2.5
20	25	30	81004577	120025WDST	118	2.5	0.14	2.5
24	30	36	81004578	120030WDST	141	3.0	0.16	2.5
28	35	42	81004579	120035WDST	165	3.5	0.14	3
32	40	48	81004580	120040WDST	188	4.0	0.14	3
36	45	54	81004581	120045WDST	212	4.5	0.15	3.5
40	50	60	81004582	120050WDST	235	5.0	0.16	3.5
48	60	72	81004583	120060WDST	282	6.0	0.13	4
56	70	84	81004584	120070WDST	329	7.0	0.14	4
64	80	96	81004585	120080WDST	376	8.0	0.11	6
72	90	108	81004586	120090WDST	423	9.0	0.14	9
80	100	120	81004587	120100WDST	470	10.0	0.19	10

WarmWire Heating Cables 240 VAC								
Total Sq. ft. 2" on center (15 W/sq. ft.)	Total Sq. ft. 2.5" on center (12 W/sq. ft.)	Total Sq. ft. 3" on center (10 W/sq. ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	REET Value*	Ship Weight (lb.)
16	20	24	81004588	240020WDST	94	1.0	0.16	2.5
24	30	36	81004589	240030WDST	142	1.5	0.14	3
32	40	48	81004590	240040WDST	188	2.0	0.16	3
40	50	60	81004591	240050WDST	236	2.5	0.14	3.5
48	60	72	81004592	240060WDST	282	3.0	0.16	3.5
56	70	84	81004593	240070WDST	330	3.5	0.14	4
64	80	96	81004594	240080WDST	376	4.0	0.14	4
72	90	108	81004595	240090WDST	424	4.5	0.15	4
80	100	120	81004596	240100WDST	470	5.0	0.16	7
96	120	144	81004597	240120WDST	564	6.0	0.13	8
112	140	168	81004598	240140WDST	658	7.0	0.14	9
128	160	192	81004599	240160WDST	752	8.0	0.11	13
144	180	216	81004601	240180WDST	846	9.0	0.14	15
160	200	240	81004602	240200WDST	940	10.0	0.19	20

2-1/2" spacing provides the same heat output as SunTouch mats.

* The REET values listed above are 200% below daily exposure levels of the average U.S. citizen as reported by the National Institute of Environmental Health Sciences (NIEHS). Values are average electromagnetic field in milligauss. For more information about EMF and REET testing, please visit www.suntouch.com.

WarmWire is the best there is.

- Twin-wire technology
- Durable
- Flexible
- Single power lead

WarmWire cable is very similar to SunTouch except for the outer jacket.

- Oxygen-free heating elements
- ETFE insulation
- Braided metal jacket

WarmWire cable secured by the strap at 2.5" spacing.

UnderFloor Mats

UnderFloor mats are the perfect solution to warm nearly every type of floor covering. These special mats warm existing floors without having to replace the floor coverings. If you have access under a floor, simply staple UnderFloor mats between the joists.

These effective, UL-listed mats deliver 10 watts/sq. ft. of floor area (about 34 BTU/hr/sq. ft.).

UnderFloor mats will warm wood, vinyl, laminates, or tile floor coverings. With UnderFloor mats, most floors can be heated 12° to 15°F warmer than they would be otherwise.

Carpeted floors will not warm up as much as other floor coverings due to the higher insulation value of carpet and padding. You may experience a temperature rise in the floor of only a 6°–10°F, which may or may not meet your satisfaction.

Insulation installed below the mats is essential to complete the installation.

Consider these benefits of UnderFloor mats:

1. **Easy staple-up installation** between floor joists.
2. **Manufactured in multiple widths & lengths.** Mats of any size (same voltage) may be combined to heat any type of room.
3. **120 and 240 Volt mats** for heating small to large floor areas.
4. **Highest-quality heating wire** using ETFE high-temperature insulation, and oxygen-free copper alloys for corrosion-resistance, temperature-resistance, abrasion-resistance, and longevity.
5. **Shielded and fully grounded** 10-ft. power lead for safety and jobsite durability (longer lengths available on request). Power leads are color-coded for 120 VAC and for 240 VAC.

CAUTION: Do not install UnderFloor mats in mortar or cement, or install them in the same control zone as SunTouch mats or WarmWire cables. These products have different heat output, and are manufactured for different applications.



Roll out and staple mat to the floor joists.



Connect mats at junction box(es).



Install insulation.





12"-wide UnderFloor Heating Mats

(for joist bays spaced 12" on center)

120 VAC	Mat Size (L x W)	Order Number	Model Number	Amp. Draw	Ship Wt. (lb.)
	5.5' x 12"	81007125	1200512U2ST	0.4	3
	8' x 12"	81007126	1200812U2ST	0.6	3
	10.5' x 12"	81007127	1201012U2ST	0.9	4
	13' x 12"	81007128	1201312U2ST	1.1	4
	16' x 12"	81007129	1201612U2ST	1.3	5

240 VAC	Mat Size (L x W)	Order Number	Model Number	Amp. Draw	Ship Wt. (lb.)
	10.5' x 12"	81007134	2401012U2ST	0.4	4
	16' x 12"	81007135	2401612U2ST	0.6	5



16"-wide UnderFloor Heating Mats

(for joist bays spaced 16" on center)

120 VAC	Mat Size (L x W)	Order Number	Model Number	Amp. Draw	Ship Wt. (lb.)
	4' x 16"	81006826	1200416U2ST	0.4	3
	6' x 16"	81006827	1200616U2ST	0.6	3
	8' x 16"	81006828	1200816U2ST	0.8	3
	9.5' x 16"	81006829	1200916U2ST	1.0	4
	12' x 16"	81006830	1201216U2ST	1.3	4
	14' x 16"	81006831	1201416U2ST	1.5	5
	16' x 16"	81006832	1201616U2ST	1.7	5
	18' x 16"	81006833	1201816U2ST	1.9	6
	19.5' x 16"	81006834	1201916U2ST	2.1	6

240 VAC	Mat Size (L x W)	Order Number	Model Number	Amp. Draw	Ship Wt. (lb.)
	8' x 16"	81006835	2400816U2ST	0.4	3
	12' x 16"	81006836	2401216U2ST	0.6	4
	16' x 16"	81006837	2401616U2ST	0.8	5
	19.5' x 16"	81006838	2401916U2ST	1.0	5



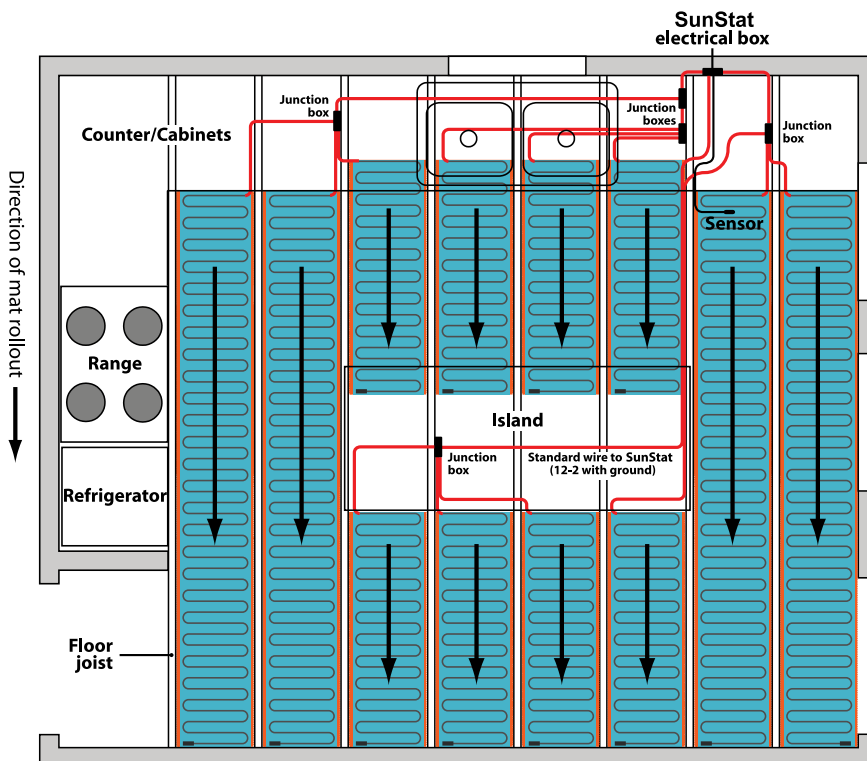
19.2"-wide UnderFloor Heating Mats

(for joist bays spaced 19.2" on center)

120 VAC	Mat Size (L x W)	Order Number	Model Number	Amp. Draw	Ship Wt. (lb.)
	4.5' x 19.2"	81007302	1200419U2ST	0.4	3
	6.5' x 19.2"	81007303	1200619U2ST	0.6	3
	8' x 19.2"	81007304	1200819U2ST	0.8	3
	9.5' x 19.2"	81007305	1200919U2ST	1.0	4
	11.5' x 19.2"	81007306	1201119U2ST	1.3	4
	13' x 19.2"	81007307	1201319U2ST	1.5	4
	14.5' x 19.2"	81007308	1201419U2ST	1.7	5
	16' x 19.2"	81007309	1201619U2ST	1.8	5
				2.1	6

240 VAC	Mat Size (L x W)	Order Number	Model Number	Amp. Draw	Ship Wt. (lb.)
	6.5' x 19.2"	81007333	2400619U2ST	0.4	3
	9.5' x 19.2"	81007310	2400919U2ST	0.6	4
	11' x 19.2"	81007311	2401319U2ST	0.9	5
	16' x 19.2"	81007312	2401619U2ST	1.0	6
	19' x 19.2"	81007313	2401919U2ST	1.3	6

All 19.2"-wide UnderFloor Heating Mats have been discontinued



Sample Kitchen Layout Using UnderFloor Mats

Each UnderFloor mat is designed to be installed in only one joist bay. **The mats cannot be cut shorter to fit a shorter joist bay or modified in any way to fill multiple joist bays.** However, more than one mat may be installed in a joist bay where there are barriers such as cross bracing or blocking.

In this kitchen layout, four 9.5' x 16" and eight 4' x 16" mats are required to warm the floor area. The mats are wired together in parallel (not in series) at junction boxes below the floor, then electrical wire is fed over to the SunStat control.

Select mats for the easiest wiring possible. If all the power leads end up at one end of the room, it will be much easier to wire them together in the junction boxes. Junction boxes must be accessible after all finishing work is completed.

Floor Heating Controls



Programmable



Non-Programmable



Relay

SunStat™ Pro - Programmable Control

The new SunStat Pro is, by far, the most sophisticated electric floor warming control available. It incorporates an amazing variety of function and elegance into one thermostat:

- 15' floor sensor included
- Dual Voltage: 120 and 240 VAC
- Built-in 15-amp Relay
- Built-in GFCI (5 milliamp trip)
- "Masterstat" capability
- Connects directly to SunStat Relay
- SmartStart Technology
- 5/1/1 Day Programming
- Four Preset Program Schedules
- One User Program Schedule
- Floor, air, or air & floor temperature modes
- "Regulator" operation without sensor attached
- Display in degree F or degree C
- Temperature Range: 40°F - 99°F (4° - 37°C)
- Large Back-lit Display
- Keyboard Lockout
- Manual On/Off Switch
- Home automation remote control
- System usage monitoring



SunStat control includes 1 sensor. An additional sensor can be purchased separately.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Programmable SunStat	1	81009182	500670-SB	2
Extra SunStat Sensor (optional)	1	81009178	500110	1

SunStat™ - Non-programmable Control

The most obvious change in our new non-programmable control is that it is now digital. However, behind the digital face of our new SunStat are nearly all of the same features as our new programmable model:

- 15' floor sensor included
- Dual Voltage: 120 and 240 VAC
- Built-in 15-amp Relay
- Built-in GFCI (5 milliamp trip)
- "Masterstat" capability
- Connects directly to SunStat Relay
- Floor, air, or air & floor temperature modes
- "Regulator" operation without sensor attached
- Temperature Range: 40°F - 99°F (4° - 37°C)
- Display in degree F or degree C
- Large Back-lit Display
- Keyboard Lockout
- Manual On/Off Switch
- Home automation remote control
- System usage monitoring



SunStat control includes 1 sensor. An additional sensor can be purchased separately.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Non-programmable SunStat	1	81009183	500675-SB	2
Extra SunStat Sensor (optional)	1	81009178	500110	1

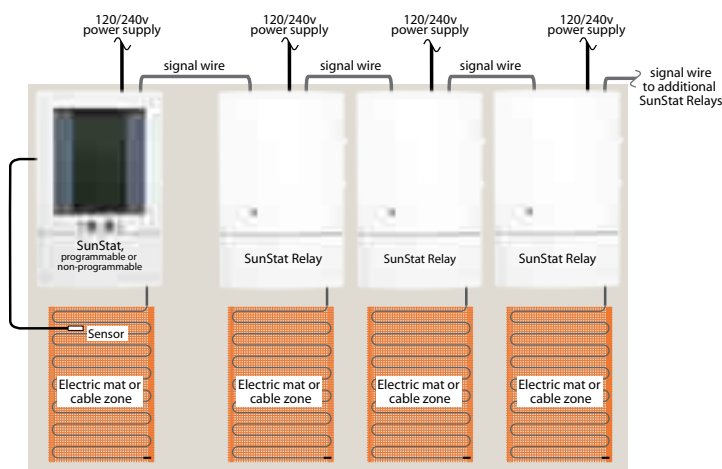
SunStat™ Relay

If a mat or cable system requires more than 15 amps, we recommend installing SunStat Relays. Relays connect directly to SunStat thermostats for simple, elegant control of larger systems. SunStat Relays don't require a special "master thermostat", as before. Relays are dual voltage (120 VAC or 240 VAC), have a 15-amp capacity, an on/off switch, a GFCI and test light.

It's possible to control over 1500 sq.ft. of electric floor warming using 120 VAC and over 3,000 sq.ft. using 240 VAC floor warming mats or cables. First, find the amp draw for each SunTouch, UnderFloor or WarmWire product in the project. Then determine how many can connect to each relay. Up to ten 15-amp Relays can connect to one SunStat. Ten Relays, plus the internal relay in the SunStat, provide a total capacity of 165 amps! Each Relay should be connected to individual 20-amp breakers, as shown below.

individual 20-amp breakers, as shown below.				Estimated
Description	Qty.	Order Number	Model Number	Ship Wt. (lb.)
SunStat Relay	1	81009185	500680-BB	2

It is possible to drive up to 10 SunStat Relays with one SunStat thermostat



Accessories



LoudMouth Monitor

Watts SunTouch was the inventor of this handy device. It's a must for every job. The LoudMouth monitors SunTouch, WarmWire, or UnderFloor heating elements during the entire installation process and sounds an alarm if the heating elements are cut or damaged, allowing for easy repair before the heating elements are covered with finished flooring or insulation. The LoudMouth gives you the assurance of a quality installation. Features include 9-volt battery power, on/off switch, green light to indicate operation, red light to indicate damage to heating elements, test button to verify proper operation, and a very loud alarm.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
LoudMouth Monitor	1	81007474	423250ST	2



Mat Installation Kit

Everything you need to make the installation easier. Includes manual, English and Spanish installation DVDs; one 1-in. x 36-yd. roll of double-sided tape to secure mat to the substrate (enough to do up to 150 sq. ft. of mat- order extra roll(s) if needed); 5 NailTites to secure the power leads; and 20 wire clips.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
SunTouch Installation Kit	1	81002490	600410ST	3.5
Extra double-sided tape	1	81000051	423275ST	0.6/roll
UnderFloor Installation Kit	1	81002492	600416ST	2



CableStrap™

CableStrap is used to hold WarmWire in place at the desired spacing. All three spacings are possible with this one strap. **Anchor the strap at 3–4-ft. intervals across the floor.** Cut using ordinary tin snips. Order one 25-ft.-long coil per 40–50 sq. ft. of heated floor area.

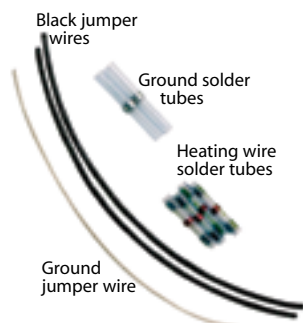
Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
CableStrap	1	81005523	321301ST	3



CableTrowel™

Most instances of damage to the heating wire occur when a metal trowel is banged onto the floor to remove excess mortar. A metal trowel can cut like a knife and either damage or totally sever the wire. The CableTrowel simply cannot damage the wire. For added peace of mind, consider using the new 3/8" x 3/8" notched CableTrowel to apply thin-set mortar.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
CableTrowel, 3/8" x 3/8" notch	1	81007407	300400ST	1



Heating Wire Repair Kit

This simple and safe kit is used to repair heating elements that have been damaged during installation. It is suitable for all SunTouch floor-warming products. Kit includes materials to make one repair: jumper wires, 1 ground jumper wire, 2 ground solder tubes, and 4 heating wire solder tubes. Detailed written instructions are included. Please call before making any type of repair.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Heating Wire Repair Kit, 1 repair	1	81007142	200299ST	1

Extra Power Lead

SunTouch mats, WarmWire cables, and UnderFloor mats come standard with a 10-ft. power lead, but can be ordered with extra-long power leads up to a maximum of 50 ft. in length. When you place your order, let us know how long the leads need to be in order to reach the electrical box or control. We'll attach a custom power lead to fit your application. For 120 VAC and 240 VAC.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Extra power lead	per foot	Consult Factory to Order		0.25 lb./ft.



ProMelt™ Mats

ProMelt mats melt snow and install quickly. All you need for a typical small-to-medium size project is a control and mat.

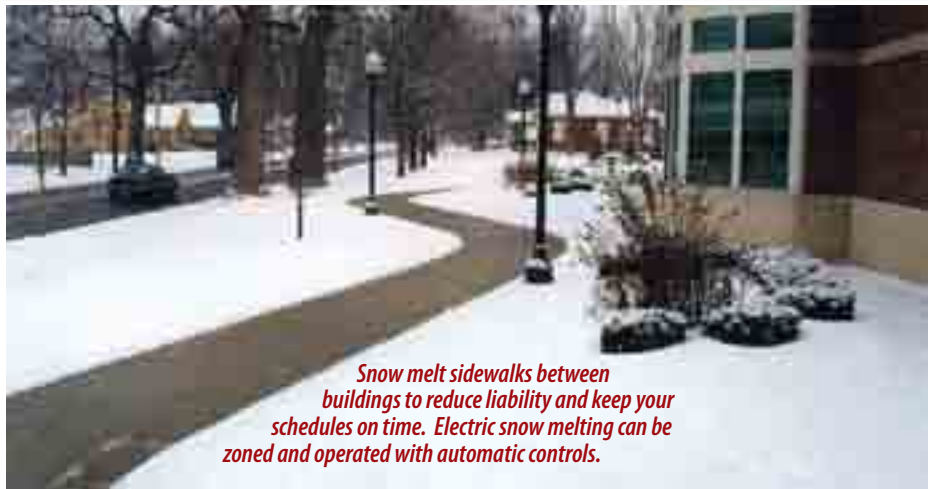
ProMelt heating elements are surrounded with high-temperature ETFE insulation and the engineered polyurethane outer jacket tolerates 300° F asphalt and the machines that roll it in place.

Each mat holds dual heating elements on 3 inch centers on a reinforced tape grid. There's a grounded power lead on one end for a fast, single-point electrical connection.

Mats come in two energy outputs:

- 120VAC mats are 38 Watts/Sq. Ft.
- 208 & 277 VAC mats are 50 Watts/Sq. Ft.

ProMelt has more sizes and more options than any electric snow melting system. Standard size widths are 2 feet and 3 feet. You can order mats to cover from 10 to 112 square feet. Our catalog lists 60 standard sizes. Call us if your job requires custom sizes.



Follow these recommendations when selecting ProMelt Mats:

1. Determine what voltage will be used:

120V, 208V, 240V, or 277V.

2. Determine the heat output.

The climate and amount of snowfall will dictate this choice. In general, most systems will require 50 Watts/Sq.Ft. to melt snow and ice. Some residential or light commercial systems in temperate climates, may need only 38 Watts/Sq.Ft. spacing.

3. Determine the square footage of the area to be melted.

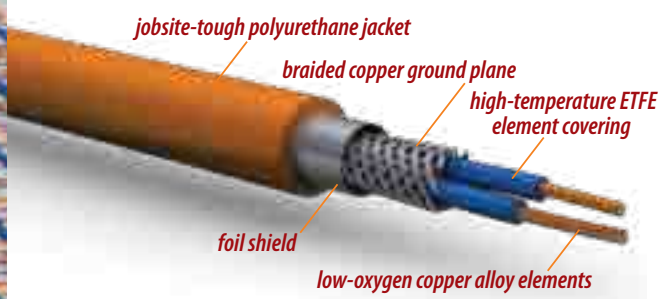
Do not include areas under built-ins like planters or similar obstructions. Stay 3-6" from edges of slabs and do not cross expansion joints if possible. Add up all the areas to be melted and round down the nearest mat size(s) to fill the area. Either 2'-wide or 3'-wide mats can be selected.

Alternatively, you might want to figure the total length of mat needed. This can be better for an area such as tire tracks, sidewalks or stairways. As an example, a sidewalk is 30" wide, 25' long, and has a 240V power supply. The best choice would be a 2' x 24' mat, 240V mat.

More than one mat can be used to melt an area(s). Combine mats in a manner not to exceed the capacity of the electrical control selected. If using our ContactorPro controls, each area should not exceed 50-amps, since these controls are built with 50-amp contactors. Therefore, we recommend dividing the area(s) into "sub-zones," if necessary or desired, to maximize the mat amp load connected to each contactor.



Anatomy of a world-class snow melting cable





www.suntouch.com/promelt

AMERICAN
MADE



2-ft. wide mats 120VAC 38Watts/Sq. Ft.

Coverage (Sq.Ft.)	Dimension (L x W)	Order No.	Model No.	Amp Draw	Total Watts	Ship Wt. est. (lb.)
10	2'W x 5'L	81011665	SM3812000524	3.2	380	2.0
20	2'W x 10'L	81011667	SM3812001024	6.3	760	3.0
30	2'W x 15'L	81011669	SM3812001524	9.5	1140	4.0
40	2'W x 20'L	81011671	SM3812002024	12.7	1520	4.5
50	2'W x 25'L	81011673	SM3812002524	15.8	1900	5.5
60	2'W x 30'L	81011675	SM3812003024	19.0	2280	6.5

3-ft. wide mats 208VAC 50Watts/Sq. Ft.

Coverage (Sq.Ft.)	Dimension (L x W)	Order No.	Model No.	Amp Draw	Total Watts	Ship Wt. est. (lb.)
15	3'W x 5'L	81011605	SM5020800536	3.6	750	2.5
30	3'W x 10'L	81011607	SM5020801036	7.2	1500	4.0
45	3'W x 15'L	81011610	SM5020801536	10.8	2250	5.0
60	3'W x 20'L	81011612	SM5020802036	14.4	3000	6.5
75	3'W x 25'L	81011614	SM5020802536	18.0	3750	8.0
90	3'W x 30'L	81011616	SM5020803036	21.6	4500	9.0

2-ft. wide mats 208VAC 50Watts/Sq. Ft.

Coverage (Sq.Ft.)	Dimension (L x W)	Order No.	Model No.	Amp Draw	Total Watts	Ship Wt. est. (lb.)
14	2'W x 7'L	81011593	SM5020800724	3.4	700	2.5
22	2'W x 11'L	81011594	SM5020801124	5.3	1100	3.0
28	2'W x 14'L	81011595	SM5020801424	6.7	1400	4.0
36	2'W x 18'L	81011596	SM5020801824	8.7	1800	4.5
40	2'W x 20'L	81011597	SM5020802024	9.6	2000	5.0
48	2'W x 24'L	81011598	SM5020802424	11.5	2400	5.5
56	2'W x 28'L	81011599	SM5020802824	13.5	2800	6.0
68	2'W x 34'L	81011601	SM5020803424	16.3	3400	7.0
76	2'W x 38'L	81011602	SM5020803824	18.3	3800	8.0
84	2'W x 42'L	81011603	SM5020804224	20.2	4200	9.0
96	2'W x 48'L	81011604	SM5020804824	23.1	4800	10

3-ft. wide mats 240VAC 50Watts/Sq. Ft.

Coverage (Sq.Ft.)	Dimension (L x W)	Order No.	Model No.	Amp Draw	Total Watts	Ship Wt. est. (lb.)
15	3'W x 5'L	81011629	SM5024000536	3.1	750	2.5
30	3'W x 10'L	81011631	SM5024001036	6.3	1500	4.0
45	3'W x 15'L	81011633	SM5024001536	9.4	2250	5.0
60	3'W x 20'L	81011635	SM5024002036	12.5	3000	6.5
75	3'W x 25'L	81011637	SM5024002536	15.6	3750	8.0
90	3'W x 30'L	81011639	SM5024003036	18.8	4500	9.0
105	3'W x 35'L	81011640	SM5024003536	21.9	5250	10.5

2-ft. wide mats 240VAC 50Watts/Sq. Ft.

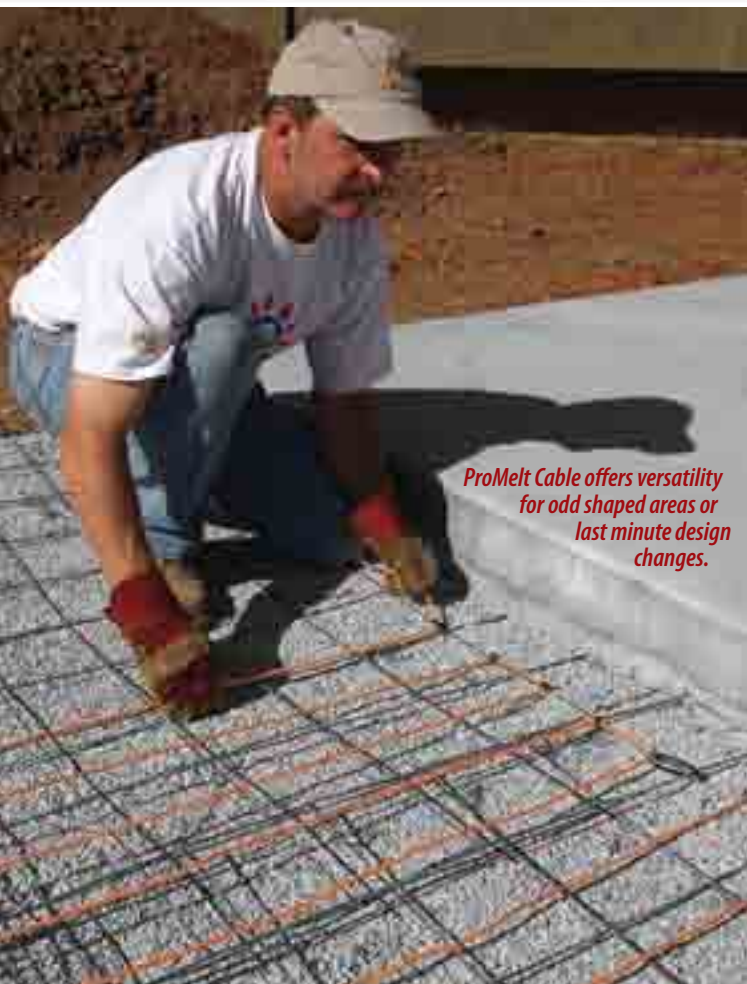
Coverage (Sq.Ft.)	Dimension (L x W)	Order No.	Model No.	Amp Draw	Total Watts	Ship Wt. est. (lb.)
16	2'W x 8'L	81011617	SM5024000824	3.3	800	2.5
24	2'W x 12'L	81011618	SM5024001224	5.0	1200	3.0
32	2'W x 16'L	81011619	SM5024001624	6.7	1600	4.0
40	2'W x 20'L	81011620	SM5024002024	8.3	2000	4.5
48	2'W x 24'L	81011621	SM5024002424	10.0	2400	5.5
56	2'W x 28'L	81011622	SM5024002824	11.7	2800	6.0
64	2'W x 32'L	81011623	SM5024003224	13.3	3200	6.0
72	2'W x 36'L	81011624	SM5024003624	15.0	3600	8.0
80	2'W x 40'L	81011625	SM5024004024	16.7	4000	8.5
88	2'W x 44'L	81011626	SM5024004424	18.3	4400	9.0
96	2'W x 48'L	81011627	SM5024004824	20.0	4800	10.0
104	2'W x 52'L	81011628	SM5024005224	21.7	5200	10.5

3-ft. wide mats 277VAC 50Watts/Sq. Ft.

Coverage (Sq.Ft.)	Dimension (L x W)	Order No.	Model No.	Amp Draw	Total Watts	Ship Wt. est. (lb.)
30	3'W x 10'L	81011654	SM5027701036	5.4	1500	4.0
45	3'W x 15'L	81011656	SM5027701536	8.1	2250	5.0
60	3'W x 20'L	81011658	SM5027702036	10.8	3000	6.5
75	3'W x 25'L	81011660	SM5027702536	13.5	3750	8.0
90	3'W x 30'L	81011662	SM5027703036	16.2	4500	9.0
105	3'W x 35'L	81011663	SM5027703536	19.0	5250	10.5

2-ft. wide mats 277VAC 50Watts/Sq. Ft.

Coverage (Sq.Ft.)	Dimension (L x W)	Order No.	Model No.	Amp Draw	Total Watts	Ship Wt. est. (lb.)
18	2'W x 9'L	81011641	SM5027700924	3.2	900	3.0
28	2'W x 14'L	81011642	SM5027701424	5.1	1400	4.0
36	2'W x 18'L	81011643	SM5027701824	6.5	1800	4.5
48	2'W x 24'L	81011644	SM5027702424	8.7	2400	5.5
56	2'W x 28'L	81011645	SM5027702824	10.1	2800	6.0
64	2'W x 32'L	81011646	SM5027703224	11.6	3200	7.0
72	2'W x 36'L	81011647	SM5027703624	13.0	3600	7.5
80	2'W x 40'L	81011648	SM5027704024	14.4	4000	8.5
88	2'W x 44'L	81011649	SM5027704424	15.9	4400	9.0
96	2'W x 48'L	81011650	SM5027704824	17.3	4800	10.0
104	2'W x 52'L	81011651	SM5027705224	18.8	5200	10.5
112	2'W x 56'L	81011652	SM5027705624	20.2	5600	11.0



ProMelt Cable offers versatility for odd shaped areas or last minute design changes.

ProMelt™ Cables

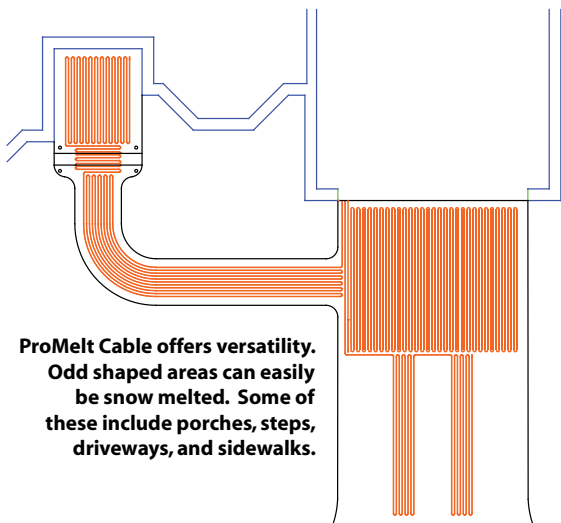
ProMelt cables cost less than ProMelt mats and give you more layout options.

In both products, the heating elements are surrounded with the same high-temperature ETFE and engineered polyurethane outer jacket for long life and jobsite toughness, including installation in asphalt.

ProMelt cables are usually tied to reinforcing wire 3 or 4 inches on center. That provides either 50 or 38 Watts per square foot. ProMelt cable can go perimeter to perimeter or fill odd-shaped areas for complete snow melting coverage.

There are a lot of ProMelt cable sizes in stock in four single-phase voltage options. All the cables terminate at one end with a power lead so you only make one connection to your electrical source.

ProMelt cables save on material costs, give you more flexibility and carry a 10-year limited warranty.



ProMelt Cable offers versatility. Odd shaped areas can easily be snow melted. Some of these include porches, steps, driveways, and sidewalks.

ProMelt Cable in concrete with tile as finish surface



Public buildings need safe and easy access. Make plans for snow melting in walkways, stairs and wheelchair ramps.





Follow these recommendations when selecting ProMelt Cables:

1. Determine what voltage will be used:

120V, 208V, 240V, or 277V.

2. Determine the heat output.

The climate and amount of snowfall will dictate this choice. In general, most systems will require 50 Watts/Sq.Ft. spacing (3" o.c.) to melt snow and ice. Some residential or light commercial systems in temperate climates, may need only 38 Watts/Sq.Ft. spacing (4" o.c.).

3. Determine the square footage to be melted.

Do not include areas under built-ins like planters or similar obstructions. Stay 3-6" from edges of slabs and do not cross expansion joints if possible. Add up all the areas to be melted and round down to the nearest cable size(s) to fill the area.

Alternatively, you might want to figure the total length of cable needed. This can be better for an area such as tire track melting. As an example, a 24"-wide track with 3" o.c. ProMelt Cable will go back and forth eight times to fill a 24"-wide track. If the tire track is 25' long, then each track will need 8 lengths x 25 feet or a total of 200 feet of cable.

More than one cable can be used to melt an area. Combine cables in a manner not to exceed the capacity of the electrical control selected. If using our ProMelt ContactorPro controls, each area should not exceed 50-amps, since these controls are built with 50-amp contactors. Therefore, we recommend dividing the area(s) into "sub-zones", if necessary or desired, to maximize the cable amp load connected to each contactor.

**AMERICAN
MADE**



www.suntouch.com/promelt

120vac Cable Spools

Total Sq. ft. 3" OC (50 W/Sq.Ft.)	Total Sq.Ft 4" OC (38 W/Sq.Ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	Total Watts	Est. Ship Wt. (lb.)
8	10	81011367	SC50120008	29	3.3	400	2.0
15	20	81011369	SC50120015	59	6.3	750	2.5
20	26	81011370	SC50120020	78	8.3	1000	3.0
30	39	81011373	SC50120030	118	12.5	1500	3.5
40	53	81011376	SC50120040	158	16.7	2000	4.5
53	69	81011378	SC50120053	208	22.1	2650	5.5

208vac Cable Spools

Total Sq. ft. 3" OC (50 W/Sq.Ft.)	Total Sq.Ft 4" OC (38 W/Sq.Ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	Total Watts	Est. Ship Wt. (lb.)
14	19	81011408	SC50208014	55	3.4	700	2.5
20	26	81011416	SC50208020	78	4.8	1000	3.0
30	39	81011417	SC50208030	118	7.2	1500	3.5
35	46	81011418	SC50208035	138	8.4	1750	4.0
40	53	81011383	SC50208040	158	9.6	2000	4.5
45	59	81011384	SC50208045	178	10.8	2250	5.0
55	72	81011385	SC50208055	218	13.2	2750	5.5
60	79	81011386	SC50208060	238	14.4	3000	6.0
65	85	81011387	SC50208065	257	15.6	3250	6.5
75	98	81011388	SC50208075	297	18.0	3750	7.0
80	105	81011389	SC50208080	317	19.2	4000	7.5
90	118	81011390	SC50208090	357	21.6	4500	8.5

240vac Cable Spools

Total Sq. ft. 3" OC (50 W/Sq.Ft.)	Total Sq.Ft 4" OC (38 W/Sq.Ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	Total Watts	Est. Ship Wt. (lb.)
15	20	81011391	SC50240015	59	3.1	750	2.5
25	33	81011392	SC50240025	98	5.2	1250	3.0
30	39	81011393	SC50240030	118	6.3	1500	3.5
40	53	81011394	SC50240040	158	8.3	2000	4.5
45	59	81011395	SC50240045	178	9.4	2250	5.0
55	72	81011396	SC50240055	218	11.5	2750	5.5
60	79	81011397	SC50240060	238	12.5	3000	6.0
65	85	81011398	SC50240065	257	13.5	3250	6.5
75	98	81011399	SC50240075	297	15.6	3750	7.0
80	105	81011400	SC50240080	317	16.7	4000	7.5
90	118	81011401	SC50240090	357	18.8	4500	8.5
105	137	81011402	SC50240105	417	21.9	5250	9.5

277vac Cable Spools

Total Sq. ft. 3" OC (50 W/Sq.Ft.)	Total Sq.Ft 4" OC (38 W/Sq.Ft.)	Order Number	Model Number	Wire Length (ft.)	Amp Draw	Total Watts	Est. Ship Wt. (lb.)
18	24	81011403	SC50277018	71	3.2	900	2.5
30	39	81011404	SC50277030	118	5.4	1500	3.5
35	46	81011405	SC50277035	138	6.3	1750	4.0
45	59	81011406	SC50277045	178	8.1	2250	5.0
55	72	81011407	SC50277055	218	9.9	2750	5.5
60	79	81011409	SC50277060	238	10.8	3000	6.0
70	92	81011410	SC50277070	277	12.6	3500	7.0
75	98	81011411	SC50277075	297	13.5	3750	7.0
80	105	81011412	SC50277080	317	14.4	4000	7.5
90	118	81011413	SC50277090	357	16.2	4500	8.5
105	137	81011414	SC50277105	417	19.0	5250	9.5
115	150	81011415	SC50277115	456	20.8	5750	10.5

ProMelt™ Controls/Sensors/Accessories



ProMelt Snow Sensor Controls: Pole-mount, 120/208/240V
 The **PM-2B** sensor control is used to detect snowfall and low temperature to activate the ProMelt Mats or Cables. It is a “pole-mounted” control with a “fixed” moisture sensor mounted to the top. The **PM-2B** offers automatic activation, rain/snow detection, adjustable trigger temperature, and a drying cycle, as well as “manual on” operation. It operates on line voltage (120/208/240V, not 277V) and has a 30 Amp capacity. It is a stand-alone control intended for relatively small systems (up to 30 Amps). It should not be used with our ContactorPro series of ProMelt controls, as those are designed for 24V control sensors. The unit measures approximately 5” x 7” x 3”

A recommended upgrade to the PM-2B is our **PM-DP** Control Panel. This control allows convenient indoor monitoring and control of the system for manual on, automatic, and standby operation. It communicates with the PM-2B through a simple low-voltage cable.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
ProMelt ,PM-2B, Detector, 120/208/240V	1	81011699	300600	3
ProMelt Display Panel, PM-DP, 24V, Optional	1	81012360	300650	1



ProMelt Snow Sensor Controls: Pole-mount, 24V
 The **PM-224** and **PM-824** are used to detect snowfall and low temperature to activate the ProMelt Mats or Cables. The **PM-224** has a moisture sensor “fixed” to the top. The **PM-824** has a remote moisture sensor, which allows mounting the control in a more convenient location. It can be mounted on a wall or inside the building and the sensor outside exposed to the snowfall, adding convenience of operation and adjustment. Both models offer automatic activation, rain/snow detection, adjustable trigger temperature, and a drying cycle, as well as “manual on” operation. Either control will operate in conjunction with our Contactor Pro series of ProMelt controls, which should be ordered separately (see next page). The unit measures approximately 5” x 7” x 3”



Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
ProMelt PM-224 Detector, 24V	1	81011700	300224	3
ProMelt PM-824 Detector w/ 10’ cable, 24V	1	81011696	300824	3



ProMelt Snow Sensor: Slab-mount, 24V
 The **PM-HSC5** is a slab-mounted snow detector. It is used to detect snowfall and low temperature to automatically activate the ProMelt Mats or Cables. It has built-in temperature and moisture detection and a drying cycle after snow melting is complete. It is comprised of a sensor and sensor socket that is embedded in the slab where ProMelt is installed. This sensor operates in conjunction with our ContactorPro series of ProMelt controls, ordered separately (see next page).

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
ProMelt PM-HSC5 Detector, 24V	1	81012366	983046ST	10



Snow Melting Plaque
 Permanent aluminum plaque to indicate where a snow melting system has been installed.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Snow Melting Plaque	1	81012381	100123	2

ProMelt ContactorPro™: 50/ 100/ 200 amp panels, 120/208/240/277V with additional 200 amp extension panel

The Contactor Pro panels are complete “turn-key” solutions for activating larger systems of ProMelt Mats and Cables when used in combination with a **PM-224**, **PM-824**, or **PM-HSC5** snow detector. They’re available in three panel sizes: 50 Amps, 100 Amps, and 200 Amps. An additional 200-amp extension panel allows coverage for even larger systems. 120V, 208V, 240V, or 270V is supplied to the panel and a 24V Class 2 transformer allows connection to the snow detector.



Each Contactor Pro panel is complete with “system on” indicator light, manual override by a 4-hr timer, simple 24V wire terminal connections to the snow detector, and outputs for connection to an extension panel. The **CP-50** has one 50-amp contactor, the **CP-100** has two 50-amp contactors, and the **CP-200** has four 50-amp contactors. Systems should be designed to connect one or more ProMelt Cables or Mats in combinations not to exceed the capacity of individual 50-amp contactors. Each panel is NEMA Type 1 for mounting indoors on a wall, has knockouts for conduit, and measures 12” x 12” x 4”.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
ContactorPro, CP-50, 50 Amp	1	81012215	300050	20
ContactorPro, CP-100, 100 Amp	1	81012216	300100	20
ContactorPro, CP-200, 200 Amp	1	81012217	300200	20
ContactorPro Expansion, CP-200EX, 200 Amp	1	81012218	300250	20.



Cable Ties

6 inch cable ties are used to tie ProMelt Mat and/or Cable to rewire or rebar.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Cable Ties	100	81012001	321400	1



CableStrap™

CableStrap is used to hold ProMelt Cable in place at the desired spacing in applications that don't use rebar or rewire. Anchor the strap at 3–4 ft. intervals across the surface. Cut using ordinary tin snips. Order one 25-ft.-long coil per 50–60 sq. ft. of ProMelt.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
CableStrap	1	81005523	321301ST	3



ProMelt Heating Wire Repair Kit

This simple and safe kit is used to repair heating elements that have been damaged during installation. It is suitable for all ProMelt snow melting products. Kit includes materials to make one repair: jumper wires, 1 ground jumper wire, 2 ground solder tubes, 4 heating wire solder tubes, and 1 shrink sleeve. Detailed written instructions are included. Please call before making any type of repair.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
ProMelt Heating Wire Repair Kit, 1 repair	1	81012263	200400	1



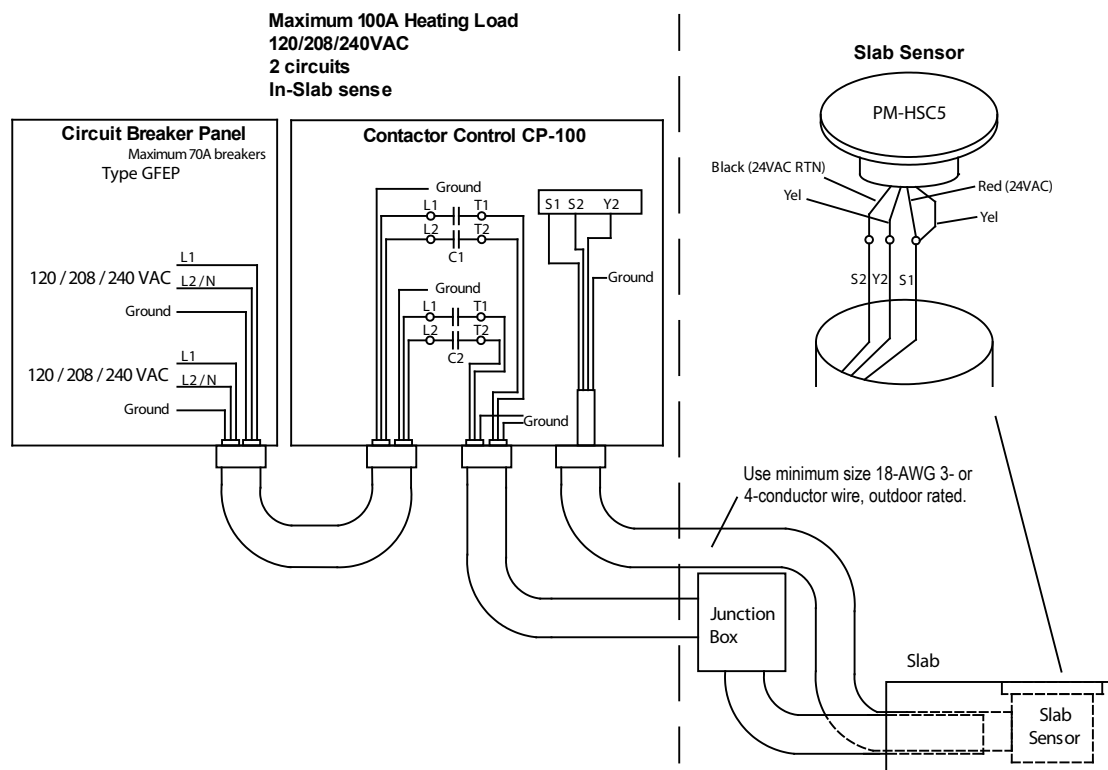
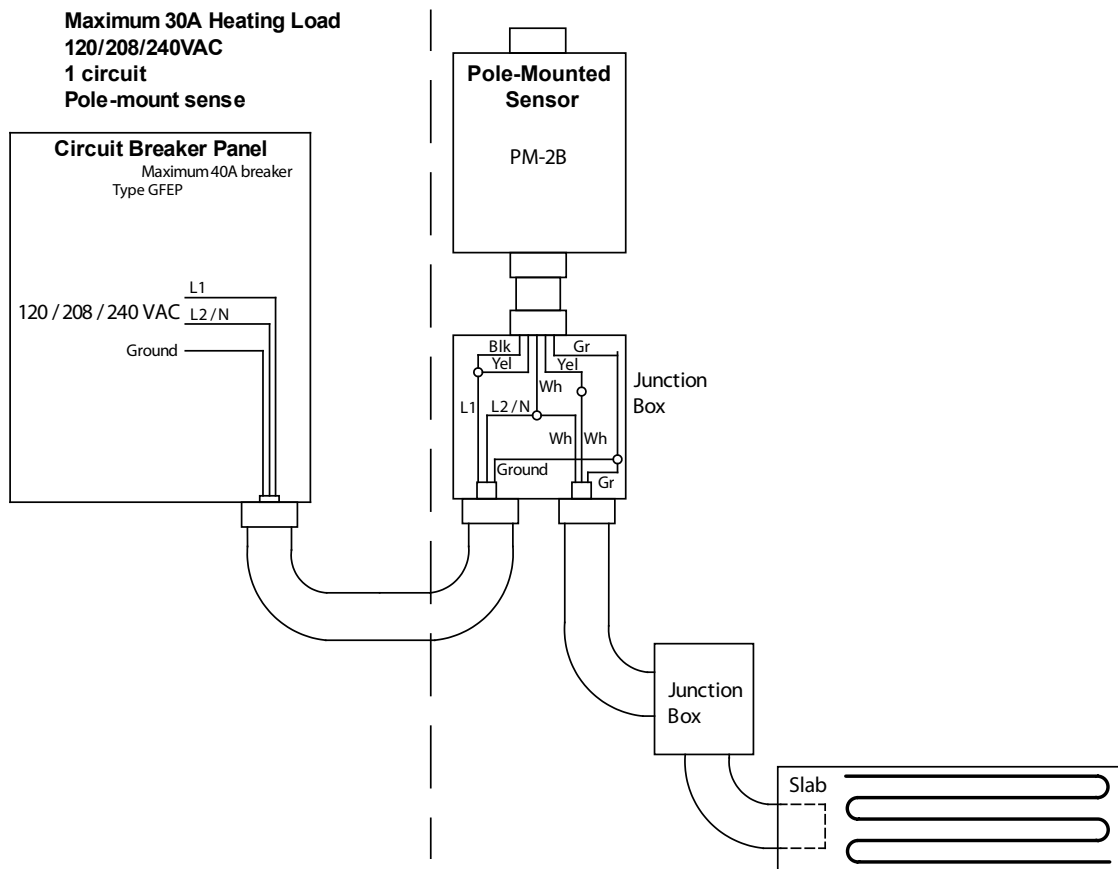
Extra Power Lead

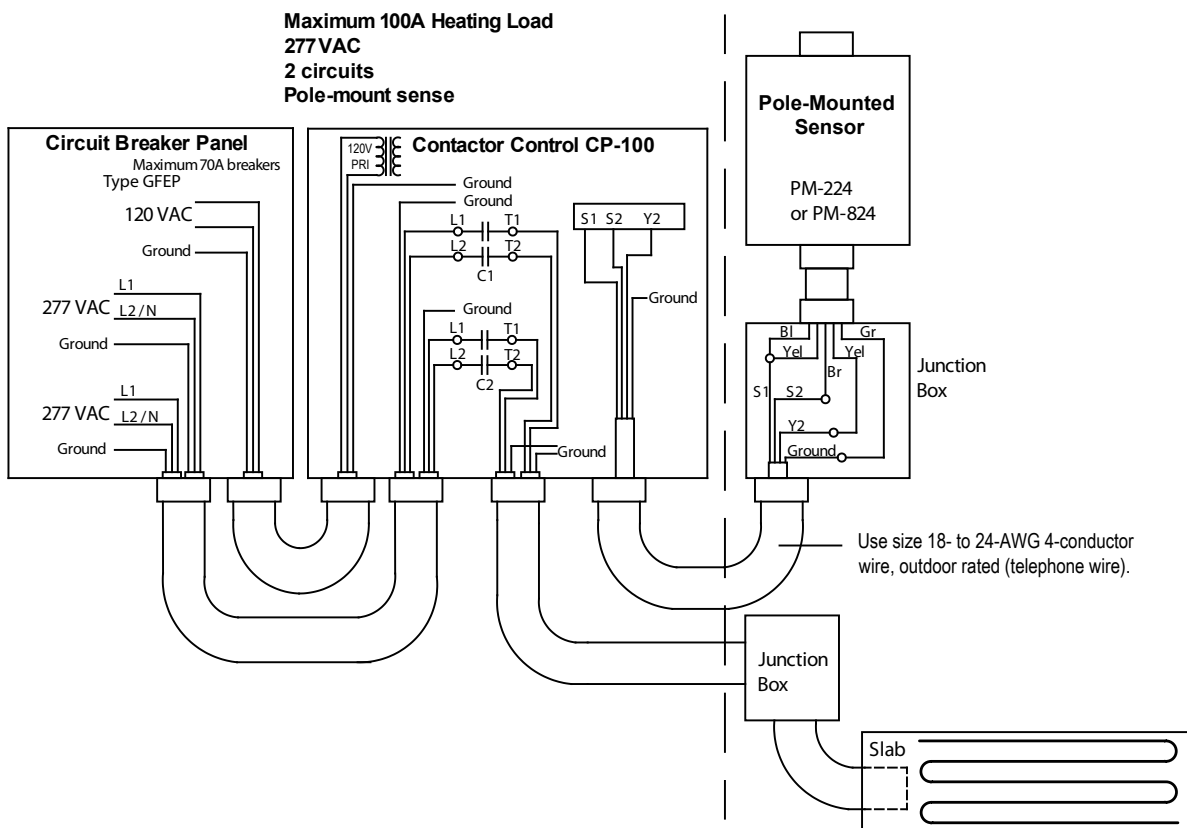
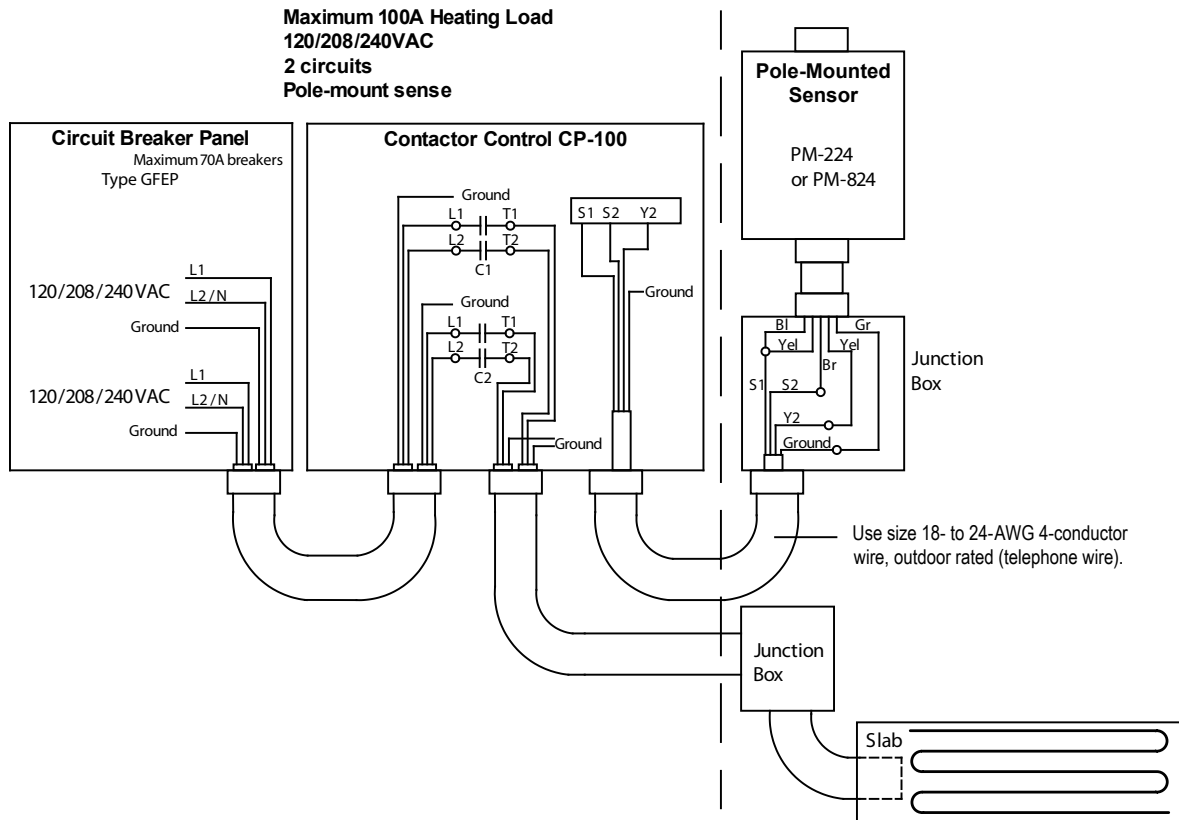
ProMelt Mats and Cables come standard with a 20-ft. power lead, but can be ordered with extra-long power leads up to a maximum of 50 ft. in length. When you place your order, let us know how long the leads need to be in order to reach the electrical box or control. We'll attach a custom power lead to fit your application. Power lead is used with 120 VAC, 208 VAC, 240 VAC, and 277 VAC ProMelt Products.

Description	Qty.	Order Number	Model Number	Estimated Ship Wt. (lb.)
Extra power lead	per foot	Consult Factory to Order		.25 lb/ft.

Appendix: Typical Wiring Diagrams

Following are examples of typical wiring connections for the ProMelt systems. Carefully read and follow the instructions given with each control for complete information. All electrical work must be performed by a qualified personnel, in accordance with local codes, ANSI/NFPA 70(NEC Article 426) and section 62 of the CEC part 1.







THE SUNTOUCH PROMO ITEMS CATALOG

Flat Panel Heated Display



Description	Order#
18" w x 24" t	81005971
24" w x 24" t	81004220
26" w x 24" t	81005972
22" w x 22" t	81006924

Counter Top Heated Display



Description	Order#
W/ WarmWire Header	81005943
W/ SunTouch Mat Header	81002504

Do you need a heated display or a 4-color banner for your showroom or counter area? How about some pens, pencils, or insulated mugs for that open house coming up? Maybe a shirt or a duffle bag would be a nice gift for one of your customers? All of these, and more, can be found in our new SunTouch Promotional Items Catalog.

THE *VERSATILE* SUNTUCH AND WARMWIRE TOWER DISPLAYS

Want to increase your sales of SunTouch and WarmWire? You can do it by placing one of our new Tower Displays in your showroom or counter area. Full or half display can be set up several different ways to display SunTouch and/or WarmWire Kits, with or without a heated counter display. We guarantee it will draw a lot of attention. Please call your distributor or SunTouch representative for details.



Description	Order#
Full Size	81010401
Half Size	81011474

(Note: heated display and kits are not included with tower)



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